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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/053,604

01/24/2002

Sheng Hsin Liao

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04/10/2003

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ELLICOTT CITY, MD 21043

EXAMINER

LUK, LAWRENCE W

ART UNIT

PAPER NUMBER

2838

DATE MAILED: 04/10/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/053,604

Applicant(s)

LIAO, SHENG HSIN

Examiner

Lawrence Luk

Art Unit

2838

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-9 and 11 is/are rejected.
- 7) ☒ Claim(s) 10 and 12-14 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 January 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-3 and 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cho (6,490,186) in combination with Sadler (6,290,534) and Amero, Jr. (5,631,101).

In regard to claim 1, Cho discloses a portable multi-function charger, comprising a body having a cavity therein (refer to Fig.2 and col.3, lines 32-34 and lines 37-38); a circuit section arranged in the cavity and having a circuit board (refer to col.4, lines 32-35), but fails to teach a mounting stage connected to the body and a spring contacts connected to the circuit board.

Sadler shows a mounting stage connected to the body (refer to Fig.1 and col.2, lines 43-47).

Amero, Jr. shows a spring contacts connected to the circuit board (refer to col.8, lines 18-21).

It would have been obvious to person having ordinary skill in the art at the time of the invention was made to modify the device of Cho to include a mounting stage connected to the body as taught by Sadler and a spring contacts connected to the

Art Unit: 2838

circuit board as taught by Amero, Jr. for the purpose of improving the utility of the charger.

In regard to claim 2, Cho shows the body contains a spool unit therein and the output cord is wrapped around the spool unit (refer to Fig.3 and col.3, lines 45-47; col.6, lines 19-25).

In regard to claim 3, Sadler shows the charger has a foldable mounting stage pivotally arranged thereon, the mounting stage being a hollow shell with contacts therein and connected to the circuit board (refer to col.3, lines 48-55).

In regard to claim 5, Cho shows the body has a clip on outer surface thereof (refer to Fig.7 and col.3, lines 34-35).

In regard to claim 6, Cho shows the circuit board is connected to an output end (refer to Fig.3, col.5, lines 60-62).

In regard to claim 7, Cho shows the board is connected to an output cord (refer to col.4, lines 40-47).

In regard to claim 8, Cho shows wherein the circuit board has a plurality of indication lamps thereon and the body has transparent mask and through holes corresponding to the indication lamps (refer to col.4, lines 50-55).

3. Claims 4 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cho (6,490,186) in combination with Sadler (6,290,534), Amero, Jr. (5,631,101) as discussed above, and further in combination with Tung et al. (6,528,969).

In regard to claim 4, Cho, Sadler and Amero, Jr. discloses the elements as claimed, except for the body has an accommodation groove thereon, the accommodation groove having open topside and having contacts connected to the circuit board.

Tung et al. shows the body has an accommodation groove thereon, the accommodation groove having open topside and having contacts connected to the circuit board (refer to col.2, lines 9-13).

It would have been obvious to person having ordinary skill in the art at the time of the invention was made to modify the device of Cho, Sadler and Amero, Jr. to include the body has an accommodation groove thereon, the accommodation groove having open topside and having contacts connected to the circuit board as taught by Tung et al. for the purpose of improving the utility of the charger.

In regard to claim 11, Tung et al. shows the output cord is also connected to a plug (refer to Fig.2 and col.2, lines 33-37).

4. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cho (6,490,186) in combination with Sadler (6,290,534), Amero, Jr. (5,631,101) as discussed above, and further in combination with Huang (5,977,747).

In regard to claim 9, Cho, Sadler and Amero, Jr. discloses the elements as claimed, except for the portable multi-function charger, wherein the board is connected to a battery connector.

Huang shows the portable multi-function charger, wherein the board is

Art Unit: 2838

connected to a battery connector (refer to col.2, lines 18-22).

It would have been obvious to person having ordinary skill in the art at the time of the invention was made to modify the device of Cho, Sadler and Amero, Jr. to include the portable multi-function charger, wherein the board is connected to a battery connector as taught by Huang for the purpose of improving the utility of the charger.

Allowable Subject Matter

5. Claims 10 and 12-14 are objected to as being dependent upon a rejected base claim. The prior art of record fails to teach or reasonably suggest that: Claim 10, the input end is connected to a plug, the plug is connected to a connector through an input cord; Claims 12, the mounting stage is integrally formed on outer surface of the body; claims 13-14, the mounting stage is detachably assembled to outer surface of the body. Claims 10 and 12-14 would be allowable if rewritten in independent from including all of the limitations of the base claim.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence Luk whose telephone number is (703)305-0617. The examiner can normally be reached on 7 a.m. to 5 p.m..

Art Unit: 2838

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on (703) 308-1680. The fax phone numbers for the organization where this application or proceeding is assigned are (703)305-7724 for regular communications and (703)305-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-1782.

LWL
April 3, 2003

Lawrence Hite
examiner
4/3/03